

A diagram illustrating total internal reflection in a fiber optic cable. A wavy line represents the boundary between the core and cladding. A light ray enters from the left, labeled 'incoming light'. The angle of incidence is marked as  $\alpha$ . The angle of reflection is marked as  $\gamma$ . The condition for total internal reflection is given as  $(\gamma > 90^\circ)$ . The ray reflects off the boundary at points labeled 2, 3, 2', 3', 2'', and 3''. The ray continues to reflect, showing multiple reflections along the length of the cable.

Fig. 2 - Staunton '532 Figure 2  
with Examinels contributions

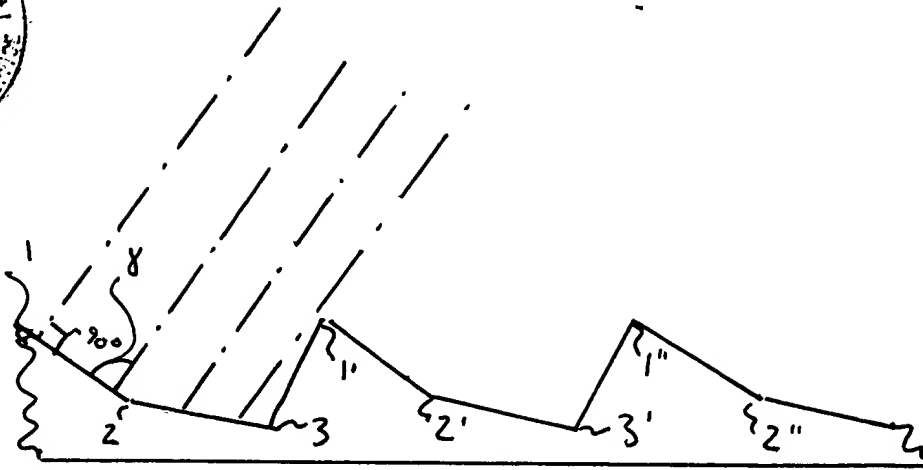


FIG. 3- Staunton '532 Figure 2  
w/ incident light @  $\gamma = 90^\circ$  for flank J-Z